Sub Spec Approved For Exercises CHARLESE COOLEY CHARLESE COOLEY CHARLESE COOLEY CHARLESE COOLEY

[0006]

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Page 3

SUBSTITUTE SPECIFICATION

BACKGROUND AND SUMMARY

[0001] The present disclosure relates to a centrifuge with a rotatable centrifugal drum having a stack of discs.

[0002] Separators of this type are known in many different embodiments, for example, from German Patent Document DE 200 10 743 U1.

[0003] The present disclosure relates to an improvement on this state of the art such that separators are created which have at least partially improved characteristics and new usage possibilities.

[0004] The present disclosure relates to a new type of centrifuge which has many different advantages in comparison with the state of the art.

The present disclosure relates to a centrifuge having at least two centrifugal drums which can respectively be rotated about two axes of rotation. One of the axes of rotation extends through the center of gravity of the centrifugal drums such that the axis of rotation is situated inside each of the at least two drum(s). An additional axis of rotation is situated outside the centrifugal drums. The two axes of rotation extending through the center of gravity may be aligned or may be parallel to one another in a plane. A disc stack is in each of the drums.

A separator or centrifuge with at least two drums which each rotate about two axes of rotation and which each have a stack of discs results in new effects in the interior of the centrifugal drums which can be utilized, for example, for optimizing the solids discharge.

[0007] From the state of the art, filter centrifuges are known, for example, which have two filter drums (German Patent Document DE 3131329 A1).

[0008] German Patent Document DE 3 092 579 also shows an evacuating system for open drums which can be rotated about an axis of symmetry and, during the evacuation, are tilted about a second axis extending through the drum.